PTO/SB/08a (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

				Complete if Known		
Substitute for fo	rm 1449/PTO			Application Number	10/591,426	
INFORMATION DISCLOSURE			JRE	Filing Date	06-13-2007	
	TEMENT BY A			First Named Inventor	K. Matyjaszewski	
				Art Unit	1796	
(use a	(use as many sheets as necessary)		Examiner Name	M. Bernshtevn		
Sheet	1	of	20	Attorney Docket Number	050096PCTUS	

			S. PATENT DO	COMENIO	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		3,037,004 A	05-29-1962	Simone et al.	
		3,096,312 A	07-02-1963	Henry	
		3,183,217 A	05-11-1965	Serniuk, et al.	
		3,350,374 A	10-31-1967	Fetscher et al.	
		3,397,186 A	08-13-1968	Edward et al.	
		3,862,978 A	01-28-1975	Decker et al.	
		3,959,225 A	05-25-1976	Kuntz	
		3,963,491 A	06-15-1976	Marsh	
		4,007,165 A	02-08-1977	MacLeay, et al.	
		4,073,870 A	02-14-1978	Saji et al.	
		4,145,586 A	03-20-1979	Haag et al.	
		4,374,751 A	02-22-1983	Dudgeon	
		4,384,093 A	05-17-1983	Culbertson et al.	
		4,581,429 A	04-08-1986	Solomon et al.	
		4,728,706 A	03-01-1988	Farnham, et al.	
		4,806,605 A	02-21-1989	Hertler	
		4,940,648 A	07-10-1990	Geiger	
		4,940,760 A	07-10-1990	Boettcher et al.	
		4,954,416 A	09-04-1990	Wright, et al.	
		4,978,498 A	12-18-1990	Yoshihiro et al.	
		5,026,813 A	06-25-1991	Meder	
		5,089,135 A	02-18-1992	Yoneyama, et al.	
		5,102,967 A	04-07-1992	Meder	
		5,169,914 A	12-08-1992	Kaszas, et al.	
		5,210,109 A	05-11-1993	Tateosian et al.	
		5,212,043 A	05-18-1993	Yamamoto et al.	
		5,248,746 A	09-28-1993	Shimokawa et al.	
		5,254,651 A	10-19-1993	Alexanian et al.	
		5,281,681 A	01-25-1994	Austin	
		5,294,678 A	03-15-1994	Tse et al.	
		5,312,871 A	05-17-1994	Mardare, et al.	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation if not in conformance and not considered cliculate copy of this form with next communication to guidequant. Augilearits unique citation designation number (options): <sup>5</sup> See Kinds Codes of USPTO Platent Documents at www.uspto.gov.or.WPEP 901.04. \*Enter Code with Codes of USPTO Platent Documents at www.uspto.gov.or.WPEP 901.04. \*Enter Code with Security Codes of USPTO Platent Documents and Codes of USPTO Platent Documents, the indication of the year of the region of the process of the Codes of USPTO Platent Codes of USPTO Platent Codes of USPTO Platent Codes of USPTO Platent Codes of USPTO Co

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to the under by the ISDFT to process an application. Confidentially is governed by 35 U.S. C. 122 and 37 CFR 1.14. This consciolation is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USFTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suppossitions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Absandaid, v.N. 22313-1450, DO NOT SEND FEES OR COMPLETEED FORMS TO THIS ADDRESS. SEND TO Commissions for the Patents, P.O. Box 41450, Absandaid, v.N. 22313-1450, 22313-1450.

PTO/SB/08a (07-09)
Approved for use through 07/31/2012. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

050096PCTUS

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591 426 Filing Date 06-13-2007 INFORMATION DISCLOSURE First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Evaminer Name M. Bernshteyn

Attorney Docket Number

			S. PATENT DO	CUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		5,322,912 A	06-21-1994	Georges et al.	
		5,324,879 A	06-28-1994	Hawthorne	
		5,331,088 A	07-19-1994	Meister et al.	
		5,401,804 A	03-28-1995	Georges et al.	
		5,405,913 A	04-11-1995	Harwood, et al.	
		5,451,647 A	09-19-1995	Faust, et al.	
		5.470.928 A	11-28-1995	Harwood, et al.	
		5,506,312 A	04-09-1996	Ariunan	
		5.508.353 A	04-16-1996	Liu et al.	
		5.510,212 A	04-23-1996	Delnick et al.	
		5,510,307 A	04-23-1996	Narayanan, et al.	
		5,558,954 A	09-24-1996	Morrison	
		5.610.250 A	03-11-1997	Veregin et al.	
		5,656,708 A	08-12-1997	Meister	
		5,668,188 A	09-16-1997	Whinnery et al.	
		5,700,844 A	12-23-1997	Liao et al.	
		5.705.577 A	01-06-1998	Rossi et al.	
		5.708.102 A	01-13-1998	Frvd et al.	
		5,763,548 A	06-09-1998	Matyjaszewski et al.	
		5,767,210 A	06-16-1998	Lecomte et al.	
		5,773,538 A	06-30-1998	Feiring	
		5.789.487 A	08-04-1998	Matyiaszewski et al.	
		5,807,937 A	09-15-1998	Matyjaszewski et al.	
		5,811,500 A	09-22-1998	Dubois et al.	
		5.833.320 A	11-10-1998	Kaneko et al.	
		5.854.364 A	12-29-1998	Senninger et al	
		5.886.118 A	03-23-1999	Percec	
		5.891.971 A	04-06-1999	Keoshkerian et al.	
		5.910.549 A	06-08-1999	Matyjaszewski, et al.	
		5.945.491 A	08-31-1999	Matyjaszewski et al.	
		5.998.537 A	12-07-1999	Good et al.	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010

"EDMINEST: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant." Applicant's unique citation designation number (optional). "See and not considered include copy of the property of the Per 9 to 100. "Enter Official that issued the document, by the two-left copy of MPEP 9 to 100." Enter Official that issued the document, by the two-left copy of MPEP 9 to 100. "Enter Official that issued the document, by the two-left copy of MPEP 9 to 100." Enter Official that issued the document, by the two-left copy of MPEP 9 to 100. "Enter Official that issued that observed is a transfer of the potent document." Kind of document by the appropriate symbols as indicated on the document under WPO Standard 511.6" passible. "Applicant is to a local candidate the well English Indiagraps Transferior to a tached."

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or tratian a benefit by the public which is to list quild by the USFTO to process) an application. Confidentiality in governed by 30 U.S. C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USFTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing his burden should be the Chief Information Officer, U.S. Patent and Tradsmark Office, P.O. Box 1450, Alexandria, Va. 22313-1450, DO. NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 4450, Alexandria, Va. 22313-1450, 22313-1450.

(use as many sheets as necessary)

PTO/SB/08a (07-09) Approved for use through 07/31/2012. OMB 0651-0031

M. Bernshteyn

050096PCTUS

U.S. Patient and Trademark Office. U.S. DEPARTMENT OF COMMERCIES.

U.S. Patient and Trademark Office. U.S. DEPARTMENT OF COMMERCIES.

Complete If Known

Application Number 10/591,426

Filing Date 06-13-2007

First Named Inventor K. Matyjaszewski

Art Unit 1796

Art Unit 1796

Examiner Name

Attorney Docket Number

		11.9	S. PATENT DO	TIMENTS		
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials* No.1		Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
	1	6,031,017 A	02-29-2000	Waki et al.		
		6,054,507 B1	04-25-2000	Funaki et al.		
		6,057,042 A	05-02-2000	Shimotsu		
		6,083,524 A	07-04-2000	Sawhney et al.		
		6,111,022 A	08-29-2000	Matyjaszewski et al.		
		6,114,448 A	09-05-2000	Derbes		
		6,114,482 A	09-05-2000	Senniger, et al.		
		6,121,371 A	09-19-2000	Matyjaszewski et al.		
		6,124,411 A	09-26-2000	Matyjaszewski et al.		
		6,126,919 A	10-03-2000	Stefely et al.		
		6,143,848 B2	11-07-2000	Lee et al.		
		6,162,882 A	12-19-2000	Matviaszewski et al.		
		6,191,197 B1	02-20-2001	Wang et al.		
		6,254,854 B1	07-03-1991	Edwards et al.		
		6,255,448 B1	07-31-2001	Grimaldi, et al.		
		6,288,186 B1	09-11-2001	Matyjaszewski et al.		
		6,310,149 B1	10-30-2001	Haddleton		
		6.326.455 B1	12-04-2001	Vassiliou et al.		
		6,407,187 B1	06-18-2002	Matyjaszewski et al.		
		6,512,060 B1	01-28-2003	Matyjaszewski et al.		
		6,534,610 B1	03-18-2003	Wilson et al.		
		6.538.091 B1	03-25-2003	Matyjaszewski et al.		
		6.541.580 B1	04-01-2003	Matyjaszewski et al.		
		6,565,763 B1	05-20-2003	Asakawa et al.		
		6.592,991 B1	07-15-2003	Wiesner et al.		
		6.624,262 B2	09-23-2003	Matyjaszewski et al.		
		6.624.263 B2	09-23-2003	Matyjaszewski et al.		
		6.627.314 B2	09-20-2003	Matyjaszewski et al.		
		6.670.299 B1	12-30-2003	Marks et al.		
		6,672,717 B2	01-06-2004	Smith		
		6.686.432 B2	02-03-2004	Coca et al.		

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010
-----------------------	-----------------------------------	--------------------	------------

\*EXAMINEC: hittle If reference considered, whether or not citation is in conformance with MECP 960. Draw line through citation if not in conformance and not considered chucke copy of this form with next communication to applicant. Applicant is notice activities of designation number (optional). \*See Kinds Codes of USPTO Paster Documents at www.uspto.gov.or MPCP 901.04. \*Enter Office that size will then the second of th

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to find und by the USPTO by process) an application. Confidentiality is powered by \$5. U.S. C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suppossitions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR OWNETED FORMS TO THIS ADDRESS. SENT DIS. Commissions for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, 22131-1450.

PTO/SB/08a (07-09) Approved for use through 07/31/2012. OMB 0651-0031

Under the	Paperwork Redu	ction Act of 1995, no persons are		mation unless it contains a valid OMB control nu	
bstitute for form 1449/PTO			Complete if Known		
substitute for to	m 1449/PTO		Application Number 10/591,426		
INFORMATION DISCLOSURE			Filing Date	06-13-2007	
STA	STATEMENT BY APPLICANT		First Named Inventor	K. Matyjaszewski	
			Art Unit	1796	
(use a	is many she	eets as necessary)	Examiner Name	M. Bernshtevn	
Sheet	4	of 20	Attorney Docket Number	050096PCTUS	

			S. PATENT DO	COMENIA	
Examiner Initials*	Cite No. <sup>1</sup>	Number - Kind Code <sup>2</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		6,692,914 B1	02-17-2004	Klaerner et al.	
		6,737,488 B2	05-18-2004	Vanhoorne et al.	
		6,759,491 B2	07-06-2004	Matyjaszewski et al.	
		6,784,247 B2	08-31-2004	Rechenberg et al.	
		6,784,248 B2	08-31-2004	Coca et al.	
		6,790,919 B2	09-14-2004	Matyjaszewski et al.	
		6,887,962 B2	05-03-2005	Matyjaszewski et al.	
		7,018,655 B2	03-29-2006	Lele et al.	
		7,019,082 B2	03-28-2006	Matyjaszewski et al.	
		7,037,992 B2	05-02-2006	Wilson et al.	
		7.049,373 B2	05-23-2006	Matyjaszewski et al.	
		7,056,455 B2	06-06-2006	Matyjaszewski et al.	
		7,064,166 B2	06-20-2006	Matyjaszewski et al.	
		7,125,938 B2	10-24-2006	Matyjaszewski et al.	
		7,157,530 B2	01-02-2007	Matyjaszewski et al.	
		7,332,550 B2	02-10-2008	Matyjaszewski et al.	
		7,572,874 B2	08-11-2009	Matyjaszewski et al.	
		7,678,869 B2	03-16-2010	Matyjaszewski et al.	
		2002/0026005 A1	02-28-2002	Munro	
		2003/0065389 A1	04-03-2003	Petersen	
		2003/0216528 A1	11-20-2003	Matyjaszewski et al.	
		2003/0236361 A1	12-25-2003	Wilson et al.	
		2004/0044152 A1	03-04-2004	Matyjaszewski et al.	
		2004/0171779 A1	09-02-2004	Matyjaszewski et al.	
		2004/0204556 A1	10-14-2004	Matyjaszewski et al.	
		2005/0090632 A1	04-28-2005	Matyjaszewski et al.	
		2006/0258826 A1	11-16-2006	Matyjaszewski et al.	
		2007/0106012 A1	05-10-2007	Matyjaszewski et al.	
		2007/0155926 A1	07-05-2007	Matyjaszewski et al.	
		2007/0244265 A1	10-18-2007	Matyjaszewski et al.	
		2009/0171024 A1	07-02-2009	Jakubowski et al.	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010

\*EXAMINER: Initial Inference considered, whether or not citation is in conformance with MECP (90). Draw line through classics if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicants in using a classing estation number (optional). See Kinds Codes of USPTO Patient Documents at www.usofo.gov or MEPP 901.04. \*Enter Office that issued the occument on the communication of the year of the region of the communication of the year of the region of the Enter Office that issued the occument the enter in unrise of the patient document. Kind of document to the patient observed from each of the region of the Emperor must proceed the partial number of the patient observed in the patient observed in the patient of the patient observed in the patient observed

This collection of information is required by 3T CPR 1.97 and 1.98. The information is required to obtain or testan a benefit by the public which is to be (and by the USPTOD to process) an application. Confidentially is governed by 30 U.S. C.122 and 37 CPR 1.14. This collection is estimated to take 2 hours to complete, including aghiering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time by our require to complete this form and/or suggestions for reducing this burders, should be sent to the Chief Information Clinic U.S. Patient and Trademark Office, P.O. Box 1450, Alexandria, VA 2231-3.1450. DO NOT SEND FEES OR COMPLETED FORMS TO 11H3 ADDIVERS. SENT DTC. commissioner for Pletests, P.O. Box 4150, Alexandria, VA 2231-3.1450.

PTO/SB/08a (07-09)

Approved for use through 07/31/2012. OMB 0551-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the F	Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.							
	Substitute for form 1449/PTO			Complete if Known				
Substitute for for				Application Number	10/591,426			
INFO	DRMATION DISC	CLOS	JRE	Filing Date	06-13-2007			
STA	STATEMENT BY APPLICANT			First Named Inventor	K. Matyjaszewski			
				Art Unit	1796			
(use a	(use as many sheets as necessary)		Examiner Name	M. Bernshteyn				
Sheet	Sheet 5 of 20		Attorney Docket Number	050096PCTUS				

		U.:	S. PATENT DO	CUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		2009/0176951 A1	07-09-2009	Matyjaszewski et al.	
	-	2009/0312505 A1	12-17-2009	Matyjaszewski et al.	
	-				
	-				
	-				
	_				

P			
Examiner	/Michael Bernshteyn/ (10/20/2010)	Date	10/00/00/10
Signature	/Michael Demonteyin (10/20/2010)	Considered	10/20/2010

\*EXAMINET: Initial if reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation in not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's inviting citation designation number (proform). See Kinds Codes of USPTO Patent Documents at www.uspfo.gov or MPEP 901.04. \*Enter Office that issued the document, by the Nev-letter code (WPD) Standard ST.31.\*\* For Japanese patent documents, be indication of the year of the region of the Emperor must procedule the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. \*Applicant is to place a check mark here If English Inauguer Translation is attached.

This collection of information is required by 3T CFR 1.97 and 1.98. The information is required to obtain or testan a benefit by the public which is to the fand by the USPTO to process) an application. Confidentially is governed by 5.0 S.C. 122 and 37 CFR 1.1.4 This collection is estimated to take 2 hours to complete, including agathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the manunot of time you require to complete this form and/or suggestions for rectaing this burden. Instead seem to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Petents, P.O. Box 4459, Alexandria, VA 22313-1450, 22313-1450.

PTO/SB/08a (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are reto respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591,426 Filing Date INFORMATION DISCLOSURE 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshteyn Sheet Attorney Docket Number 050096PCTUS

		FOREIGN PAT				_
Examiner Initials*	Cite No.1	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>If known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т
		CA 2209061 (English abstract)	02-28-1998	Elf Atochem		$^{\dagger}$
	_	CN 1165828A (English abstract)	11-26-1997	Huadong University		$^{+}$
		EP 0265091 A1	04-27-1988	E.I. Du Pont		$^{+}$
		EP 0341012 A2	11-08-1989	Edison Polymer Innovation Corp		T
		EP 0434438 A	06-26-1991	Ceskoslovenska		+
		EP 0457916 A	11-27-1991	Eisai Co. Ltd.		+
		EP 0789036 A1	08-13-1997	Kaneka Corp		✝
		EP 0816385 A1	01-07-1998	Kaneka Corp		t
		EP 0824110 A1	02-18-1998	Lecomte		t
		EP 0824111 A1	02-18-1998	Senninger		t
		EP 0826698 A1	03-04-1998	Senninger		t
		EP 0832902 A2	04-01-1998	Grimaldi		t
		EP 0870809 A2	10-14-1998	Fuji Photo Film Co.		H
		JP 6322171 A	11-22-1994	Mitsui Petrochem Ind. Inc.		T
		W0 00/56795 A1	09-28-2000	Carnegie Mellon Univ		T
		WO 00/47634 A1	08-17-2000	Ineos Acrylics UK		H
		WO 00/75198	12-14-2000	Univation Technologies, LLC		
		WO 2003/097107 A	11-27-2003	Nitto Denko Corp.		Н
		WO 2004/041972 A	05-21-2004	Honeywell Int. Inc.		Н
		WO 2007/025086 A2	03-01-2007	Carnegie Mellon Univ		
		WO 2007/059350 A2	05-24-2007	Carnegie Mellon Univ		Г
		WO 2008/057163 A2	05-15-2008	Carnegie Mellon Univ		
		WO 2008/148000 A1	12-04-2008	Carnegie Mellon Univ		l

	Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010	$\neg$
--	-----------------------	-----------------------------------	--------------------	------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Evolution due you of this form with next communication to applicant. \*Applicants unique citation designation number (optional). \*See Standard ST3, \*For Japanese periments all applications of MPEP 9010. \*Either Officion this sessed the document, by the two-leter code (MPP Standard ST3, \*For Japanese periments all applications of MPEP 9010. \*Either Officion that sessed the document, by the two-leter code (MPP document. \*Kind of document by the appropriate symbols as indicated on the document under VMPO Standard ST1. 16 if possible. \*Applicant to be applicated as the control of the option of VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the document under VMPO Standard ST1. 16 if possible. \*Applicant to the doc

This collection of information is required by 3T CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to five and by the USFTOD to process) an application. Confidentially is governed by 3.0 S. C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USFTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete the form and/or suggestions for reducing this burden, should be sent to the Chief Information Office; U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22213-1450, DIO, NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 4450, Alexandria, VA 22313-1450.

PTO/SB/08a (07-09) Approved for use through 07/31/2012. OMB 0651-0031

050096PCTUS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591 426 Filing Date INFORMATION DISCLOSURE 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshteyn Sheet Attomey Docket Number

		FOREIGN PAT	ENT DOCUM	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		WO 2009/023353 A9	02-19-2009	Camegie Mellon Univ		T
		WO 2009/111725 A1	09-11-2009	Carnegie Mellon Univ		T
		WO 97/18247	05-22-1997	Carnegie Mellon Univ		T
		WO 97/47661 A1	12-18-1997	University of Warwick		r
		WO 98/01480	01-15-1998	Camegie Mellon Univ		L
		WO 98/06758 A1	02-19-1998	E.I. Du Pont		-
		WO 98/20050 A2	05-14-1998	E.I. Du Pont		-
		WO 99/28352	06-10-1999	University of Warwick		Н
						Ξ
						_
						_
						_
						_
						_
						_

Examiner	/Michael Bernshteyn/ (10/20/2010)	Date	
Signature	//viichael bernshleyn/ (10/20/2010)	Considered	10/20/2010

\*EXAMINET: Initial if reference considered, whether or not obtation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered in brush copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Anna Codes of USPTO Patient Documents at <a href="https://documents.org/lines/2016/01/97">https://documents.org/lines/2016/01/97</a>. On MEPP 9010. "Enter Obcoments that several the documents and the second of the second Standard ST.3). For Japanese patent document, is the nickation of the year of the right of the Emparty must proceed the settle injuries of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 (all diff in USF1 to 10 process) are application. Commentarily 8 journment by 30 USF0. Let all 20 FUTE 1.15. This Common seasons to water, a fund to process of the USF10. The mention of the USF10. The mention of the USF10. The use will vary depending upon the common of the USF10. The use of the USF10. The use of the USF10 Common of the USF10 Co COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08a (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591.426 Filing Date INFORMATION DISCLOSURE 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshtevn Attorney Docket Number Sheet 8 of 050096PCTUS

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ANNENKOV et al., Poly-C-vinyltetrazoles: A New Type of Polyacid, Journal of Polymer Science Part A: Polymer Chemistry, 1993, pp. 1903-1906, Vol. 31(7).	
		ASSCHER et al., Chlorine-Activation by Redox-Transfer, Part IV, The Addition of Sulphonyl Chlorides to Vinylic Monomers and Other Olefins, Journal of the Chemical Society, 1964, pp. 4962-4971.	
		BAMFORD, Comprehensive Polymer Science (First Supplement), eds., Pergamon: Oxford vol. 3, p. 123 (1991).	
		BELLUS, Pure & Appl. Chem. 57, 1827 (1985).	
		BLEDZKI, et al., Makromol. Chem. 184, 745 (1983).	
		BRITTAIN et al., Makromol. Chem., Macromol. Symp. 67, pp. 373-386 (1993), "Termination Processes in Group Transfer Polymerization".	
		BYWATER, Makromol. Chem., Macromol. Symp. 67, pp. 339-350 (1993), "Group Transfer Polymerization - A Critical Overview".	
		CARNAHAN et al., Synthesis and Characterization of Poly(glycerol-succinic acid) Dendrimers, Macromolecules, 2001, pp. 7648-7655, Vol. 34(22).	
		CARTER et al., Polyimide Nanofoams From Phase-Separated Block Copolymers, Electrochemical Society Proceedings, 1997, pp. 32-43, Vol. 97(8), Electrochemical Society, Pennington, NJ, US.	
		CARUSO, Nanoengineering of Particle Surfaces – Adv. Mater. 2001, 13, No. 1, Jan. 5, 11-22 – Wiley–VCH Verlag GmbH.D-69469 Weinheim, 2001.	
		CATALA, et al., Macromolecules, 1995, 28, 8441.	
		Chemical Abstracts, Vol. 85, 1976, pp. 20.	

Examiner /Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010	٦
--	--------------------	------------	---

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next commiscation to applicant.

\*Applicant's unique citation designation number (optional). \*Applicant is optiace and the reference if English language Translation is attached. This

Applicants unique citation designation number (pollonal). \*Applicant is to place a check mark here if English language Translation is attached. This condection of information is required by 37 CFR 1.95. The information is required by 37 CFR 1.95. The information is required by 37 CFR 1.95. The condection is settlement to the care to the condection is estimated to take 2 hours to complete, including pathering, preparing, and allow the complete is from an adversarial pathering of the complete is from the complete in the complete in the complete is from the complete in the complete in the complete is from the complete in the complete in the complete is from the complete in the complete in the complete in the complete is from the complete in the complete in the complete in the complete is from the complete in the complete in the complete is from the complete in the complete

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to

				Con	nplete if Known
Substitute for for	m 1449/PTO			Application Number	10/591,426
INFO	RMATION DISC	CLOSE	JRE	Filing Date	06-13-2007
STA	TEMENT BY AP	PLICA	ANT	First Named Inventor	K. Matyjaszewski
				Art Unit	1796
(use as	s many sheets as	s nece	ssary)	Examiner Name	M. Bernshteyn
Sheet	9	of	20	Attorney Docket Number	050096PCTUS

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		CHEN et al., Pryolytic Behavior and In-Situ Paramagnetism of Star-like C80(CH3)x(PAN)xcopolymers, European Polymer Journal, 1998, pp. 421-429, Vol. 34(3-4), Elsevier Science Ltd., Oxford, GB.	
		COCA et al., Polymerization of Acrylates by Atom Transfer Radical Polymerization.  Homopolymerization of 2-hydroxyethyl Acrylate, Journal of Polymer Science, Part A: Polymer Chemistry, 1998, pp.1417-1424, Vol. 36.	
		COHEN, et al., Inorg. Chem. 13, 2434 (1974).	
		COLLMAN et al., "Clicking" Functionality onto Electrode Surfaces, Langmuir, 2004, pp. 1051-1053, Vol. 20.	
		Copolymerization, pp. 237-257., 1996	
		CURRAN, et al., Comprehensive Organic Synthesis, eds., Pergamon: Oxford vol. 4, p. 715 (1991).	
		CURRAN, et al., J. Am. Chem. Soc. 116, 4279 (1994).	
		CURRAN, et al., J. Org. Chem., 54, 3140 (1989).	
		CURRAN, Synthesis, 489 (1988).	
		DARKOW et al., "Synthesis, Photomodification and Characterization of Homo- and Copolymers with 2,5-bisaryltetrazolyl Pendant Groups", Reactive and Functional Polymers, 1997, pp. 195-207, Vol. 32(2).	
		DAVIES, "Reactions of L-ascorbic acid with transition metal complexes," Polyhedron, 1992, 11, 285-321.	
		DE VRIES, et al., "The Effect of Reducing Monosaccharides on the Atom Transfer Radical Polymerization of Butyl Methacrylate," Macromol. Chem. Phys., 2001, 202, 1645-1648.	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This

collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form addors suggestions for reducing through should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Examiner

Signature

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591.426 INFORMATION DISCLOSURE Filing Date 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshteyn Sheet Attorney Docket Number 050096PCTUS

Examiner	0.4	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
Examiner Initials*	Cite No.1	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		DEMKO et al., A Click Chemistry Approach to Tetrazoles by Huisgen 1,3-Dipolar Cycloaddition:	
		Synthesis of 5-Acyltetrazoles from Azides and Acyl Cyanides, Angewandte Chemie, International	
		Edition, 2004, pp. 2113-2116, Vol. 41(12).	
		DREEZEN, et al., "Nano-Structured Polymer Blends: Phase Structure, Crystallisation Behaviour	
		and Semi-Crystalline Morphology of Phase Separated Binary Blends of Poly(ethyleneoxide) and	
	i	Poly(ether sulphone)", Polymer, Elsevier Science Publishers B.V., GB, vol. 41, No. 4, Feb. 2000,	
		pp. 1395-1407.	
		DRULINER, Macromolecules, 24, 6079 (1991).	
		ENDO, et al., Macromolecules, 25, 5554 (1992).	
	1	FENG, "Synthesis and Free Radical Polymerization of 2-oxo-3-methylene-5-phenyl-1,4-dioxan."	-
		Chinese Journal of Polymer Science, 1993, 11, 2, pp. 153-157).	
		FISCHER, Am. Chem. Soc. 1986, 108, 3925.	
		FUKUDA, et al, Chem. Letters, 1996, 4, 293.	
	-	FUKUDA, et al., Macromolecules, 1996, 29, 3050.	
		GAYNOR, et al., Polym. Prep. (Am. Chem. Soc. Polym. Chem. Div.), 36(1), 467 (1995).	
		GEORGES, et al., Macromolecules 1993, 26, 2987.	
		GEORGES, et al., Macromolecules 1994, 27, 7228.	
		GEORGES, et al., Macromolecules, 1993, 26, 5316.	
	1 1		

\*EXAMINER: Initial if reference considered, whether or not clation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered, include copy of this form with not communication to spiciousn.

\*Applicant survive clation designation number (optional).\*\*Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required by 27 CFR 1.98. The information is required by a public which is to life (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application from the USPTO. Time will vary desending used the individual.

/Michael Bernshteyn/ (10/20/2010)

DEPTO to process an application. Confidentiality is governed by 38 U.S. C. 122 and 37 CRF.11. This collection is estimated to lake 3-boars to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the Individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA. 2213-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA. 2213-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Date

Considered

10/20/2010

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid CMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591.426 Filing Date INFORMATION DISCLOSURE 06-13-2007 First Named Inventor K. Matyjaszewski STATEMENT BY APPLICANT Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshtevn Attorney Docket Number Sheet of 20 050096PCTUS

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		GILBERT & WILLIAMS, Reactivity Ratios of Conjugated Dienes Copolymerized in Emulsion at 5 <sup>-1</sup> , J. Am. Chem. Soc. 74, (1952), 4114-4118.	
		GNANOU et al., "Effect of Phenol and Derivatives on Atom Transfer Radical Polymerization in the Presence of Air," Journal Polymer Science, Part A: Polymer Chemistry, 2004, 42, 351-359.	
		GRANEL et al., Controlled Radical Polymerization of Methacrylic Monomers in the Presence of Bis(ortho-chelated) Arylnickel (II) Complex and Different Activated Alkyl Halldes, Macromolecules, 1996, pp. 8576-8582, Vol. 29(27).	
		GRAYSON et al., Convergent Dendrons and Dendrimers: From Synthesis to Applications, Chemical Reviews, 2001, pp. 3819-3867, Vol. 101(12).	
		GRESZTA et al., Gradient Copolymers of Styrene and Acrylonitrille Via Atom Transfer Radical Polymerization, Polymer Preprints, 1997, pp. 709-710, Vol 38(1).	
		GRESZTA, et al., Macromolecules, 27, 638 (1994)	
		GROMADA et al., Simultaneous Reverse and Normal Initiation in Atom Transfer Radical Polymerization, Macromolecules, 2001, pp. 7664-7671, 34(22).	
		HAWKER et al., The Convergent-Growth Approach to Dentritic Macromolecules, Advances in Dendritic Macromolecules, 1995, pp. 1-39, Vol. 2.	
		HAWKER, "Molecular Weight Control by a Living Free Radical Polymerization Process", Journal American Chem. Society, 1994, vol. 116, pp. 11185-11186.	
		HAWKER, et al., Macromolecules, 1996, 29, 2686.	
		HAYES, et al., J. Am. Chem. Soc. 110, 5533 (1988).	
		HEDRICK et al., (Dendrimer-like Star Block and Amphiphlic Copolymers by Combination of Ring Opening and Atom Transfer Radicat Polymerization). Macromolecules, 1998, 31, 8671-8705.	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010

\*EXAMINER: Initial if raference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). \*Applicant is to place a check mark here if English language Translation is attached. This

'Applicant's unique clatified nesignation number (optional), 'Applicant is to place a check mark here if English language Translation is statucht. This confection of information is required by 3 of CFR 1.98. In information is required by 3 of CFR 1.98. In information is required by 3 of CFR 1.98. In confection is estimated to take or here is a benefit by the public which is to file drain by the USFTO to process, an application. Confidentially is governed by 35 U.S.C. 122 and 37 OFR 1.14. This collection is estimated to take 2 hours to consider the confidential publication from the USFTO. This will vary depending upon the involvable considerable and the confidential publication from the USFTO. This will vary depending upon the involvable considerable considerable and the confidence of the CFR 1.98. The C

Sheet

12

of

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031

050096PCTUS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591.426 Filing Date INFORMATION DISCLOSURE 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshteyn

Attorney Docket Number

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HELMS et al., Dendronized Linear Polymers via "Click Chemistry", Journal of the American Chemical Society, 2004, pp. 15020-15021, Vol. 126(46).	
		HEUTS et al., "Atom transfer radical polymerization in the presence of a thiol: more evidence supporting radical intermediates," Macromol. Chem. Phys., 1999, 200, 1380-1385.	
		HIRAO, et al., J. Synth. Org. Chem. (Japan), 52(3), 197 (1994).	
	1	HIRAO, et al., Syn. Lett. 217 (1990).	
[-]		IHRE et al., Fast and Convenient Divergent Synthesis of Aliphatic Ester Dendrimers by Anhydride Coupling, Journal of the American Chemical Society, 2001, pp. 5908-5917, Vol. 123(25).	
		IQBAL, et al., Chem. Rev. 94, 519 (1994).	
		JAKUBOWSKI et al., "Activators Regenerated by Electron Transfer for Atom Transfer Radical Polymerization of Styrene," Macromolecules, 2006, 39, 39-45.	94.1
		J-F LUTZ et al., Synthesis and Properties of Copolymers with Tailored Sequence Distribution by Controlled/Lung Radical Polymerization, in ACS Symposium Series, Advances in Controlled/living Radical Polymerizations, American Chemical Society Division of Polymer Chemistry, 2003, Chapter 19, pp. 268-282, Vol. 554.	
		JO et al., Effects of Various Copper Salts and Additives on Polymerization of Acrylonitrile by Atom Transfer Radical Polymerization, Polymer Preprints, 1997, pp. 699-700, Vol. 38(1).	
		JO et al., Polyacrylonitrile with Low Polydispersities by Atom Transfer Radical Polymerization, Polymer Preprints, 1997, pp. 697-698, Vol. 38(1).	
		KAMIGATA, et al., Novel Perfluoroalkylation of Alkenes with Perfluoroalkanesulphonyl Chlorides Catalysed by a Ruthenium (II) Complex, Journal of the Chemical Society, Perkins Transactions 1, 1991, pp. 627-633.	
		KATO, et al., Macromolecules, 28, 1721 (1995).	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010

"EXAMINET: Initial If reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation if not in conformance and not considered, Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is statched. This collection in Information is required by 37 CFR 1.98. In information is required by 37 CFR 1.98. The information is required by 37 CFR 1.98. The information is required by 19 CFR 1.19. The collection is estimated to lack 2 hours be completed, including gathering, preparing, and submitting the completed application from the but SPTO. Time will way depending upon the individual information officers, U.S. Patent and Trademark Office, P.O., Box 1450, Alexandria, V.A. 2313-4450, DOLORT PEES OR COMPLETED FORMS TO THIS ADDRESS SEMDTO: Commissioner for Patents, P.O., Box 1450, Alexandria, V.A. 2313-4450, DOLORT PEES OR COMPLETED FORMS TO THIS ADDRESS SEMDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, V.A. 2313-4450, Including the patents of the control of the patents of the control of the patents of the pat

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMS control number Complete if Known Substitute for form 1449/PTO Application Number 10/591.426 INFORMATION DISCLOSURE Filing Date 06-13-2007 First Named Inventor K. Matyjaszewski STATEMENT BY APPLICANT Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshtevn Attorney Docket Number Sheet 13 of 050096PCTUS

		NON PATENT LITERATURE DOCUMENTS	
Examiner Cite Initials* No. <sup>3</sup>		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		KIZHNYAEV et al., Vinyltetrazoles: Synthesis and Properties, Russian Chemical Reviews, 2003, pp. 143-164, Vol. 72(2).	
		KOLB et al., Click Chemistry: Diverse Chemical Function from a Few Good Reactions, Angewandte Chemie, International Edition, 2001, pp. 2004-2021, Vol. 40(11).	
		KOWALEWSKI et al., Advances in Nanostructored Carbons from Block Copolymers Prepared by Controlled Radical Polymerization Techniques, in Controlled Radical Polymerization: From Synthesis to Materials, American Chemical Society Division of Polymer Chemistry, 2005, Chapter 21, pp. 295-310, Vol. 944.	
		KWAK et al., "ARGET ATRP of methyl methacrylate in the presence of nitrogen-based ligands as reducing agents," Polym. Int. 2009, 58, 242-247.	
		LEDUC et al., also in-house computer search of same Asnwer 3 of 19 abstract, p. 41, J. Am. Chem. Soc. 1996, 118, 11111-11118.	
		LEE, et al., J. Chem. Soc. Trans., Faraday Soc. I, 74, 1726 (1978).	
		LEWIS, et al., Copolymerization VII, Copolymerization of Some Further Monomer Pairs, April 1948, pp. 1527-1529.	
		LI, et al., ASC Polym. Preprints, 1995, 36(1), 469.	
		Ligane, "Interpretation of the Polarographic Waves of Complex Metal Ions," Chem. Rev. 1941, 29, 1.	
		MAJORAL et al., Dendrimers Containing Heteroatoms (Si, P, B, Ge, or Bi), Chemical Reviews, 1999, pp. 845-880, Vol. 99(3).	
		MAKINO et al., Controlled Atom Transfer Radical Polymerizations of Methyl Methacrylate Under Micellar Conditions, Polymer Preprints, 1988, pp. 288-289, Vol. 39(1).	
		MARAVAL et al., "Lego" Chemistry for the Straightforward Synthesis of Dendrimer, Journal of Organic Chemistry, 2003, pp. 6043-6046, Vol. 68(15).	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010	
				_

\*EXAMINER: Initial infederance considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Transision is attached. This collection of information is required by 37 CFR 1.98. The information is required by 37 CFR 1.98. The information is required by 37 CFR 1.98. The information is required by 50 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to USFT 10 process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to USFT 10 process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to USFT 10 process an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to USFT 10 process. Application from the USFT 10 process and the information of the process of the USFT 10 process and the USFT 10 process of the USFT 10 process and the USFT 10 process of the USFT 10 pr

PTO/SB/08b (07-09)
Approved for use through 07/31/2012, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO Application Number 10/591,426 Filing Date INFORMATION DISCLOSURE 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshteyn Sheet 14 of Attorney Docket Number 050096PCTUS

	_	NON PATENT LITERATURE DOCUMENTS	
Examiner Cite Initials* No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		MARDARE, et al., ACS Polymer Preprints 1994, 35(1), 778.	
		MARDARE, et al., Macromolecules, 27, 645 (1994).	
		MARDARE, et al., Polym. Prep. (ACS), 36(1), 700-701 (1995).	
		MARESTIN et al., Nitroxide Mediated Living Radical Polymerization of Styrene in Emulsion, Macromolecules, 1998, pp. 4041-4044, Vol. 31(12).	
		MATTHEWS et al., Dendrimers-Branching out from Curiosites into New Technologies, Progress in Polymer Science, 1998, pp. 1-56, Vol. 23.	
		MATYJASZEWSKI ed., Controlled/"Living" Radical Polymerization. Progress in ATRP, NMP, and RAFT, in: ACS Symposium Ser., 2000, Chapter 19, Reverse Atom Transfer Radical Polymerization Using AlBN or SPO as Initiator, pp. 263-275.	
		MATY:JASZEWSKI et al., (Structural Control of Poly(Methyl Methacrylate)-g-poly(Lactic Acid) Graft Copolymers by Atom Transfer Radical Polymerization (ATRP). Macromolecules 2001, 34, 6243-6248.	
		MATY/JASZEWSKI et al., "Controlled/Living" Radical Polymerization. Kinetics of the Homogeneous Atom Transfer Radical Polymerization of Styrene," J. Am. Chem. Soc., 1997, 119, 674-680.	
		MATYJASZEWSKI et al., Atom Transfer Radical Polymerization, Chemical Reviews, 2001, pp. 2921-2990, Vol. 101(9).	
		MATYJASZEWSKI et al., Controlled/'Living" Radical Polymerization of Styrene and Methly Methacrylate Catalyzed by Iron Complexes1, Macromolecules, 1997, pp. 8161–8164, Vol. 30(26).	
		MATYJASZEWSKI et al., Controlled/Living Radical Polymerization: State of the Art in 2002, in ACS Symposium Series, Advances in Controlled/living Radical Polymerizations, American Chemical Society Division of Polymer Chemistry, 2003, Chapter 1, pp. 2-9, Vol. 854.	
		MATYJASZEWSKI et al., Controlled/Living Radical Polymerization: State of the Art in 2005, in Controlled Radical Polymerization: From Synthesis to Materials, American Chemical Society Division of Polymer Chemistry, 2005, Chapter 1, pp. 2-12, Vol. 944.	

_			
I Examiner	/Michael Bernshtevn/ (10/20/2010)	Date	
			l 10/20/2010 l
Signature	, , , , , , , , , , , , , , , , , , , ,	Considered	10/20/2010

"EXAMINER: hills if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). "Applicant is to place a check mark here if English language Translation is attached. This

^Applicant's unique citation designation number (optional), ^Applicant is to place a check mark here if English language Translation is statuched. This condiction of information is required by 37 CFR 1.98. If micromation is required by 37 CFR 1.98. If micromation is required by 37 CFR 1.94. This collection is estimated to take 2 hours to condiction in the property of the property

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591,426 INFORMATION DISCLOSURE Filing Date 06-13-2007 First Named Inventor K. Matyjaszewski STATEMENT BY APPLICANT Art Unit 1796 (use as many sheets as necessary) **Examiner Name** M. Bernshteyn Sheet 20 Attorney Docket Number 14 of 050096PCTUS

		NON PATENT LITERATURE DOCUMENTS	
Examiner Cite Initials* No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		MATYJASZEWSKI et al., Zerovalent Metals in Controlled/"Living" Radical Polymerization, Macromolecules, 1997, pp. 7348-7350, Vol. 30(23).	
		MATYJASZEWSKI, "The Importance of Exchange Reactions in the Controlled/Living Radical Polymerization in the Presence of Alkoxyamines and Transition Metals", Macromolecule Symposium, 1995, vol. 111, pp.47-61.	
		MATYJASZEWSKI, "Radical Nature of Cu-Catalyzed Controlled Radical Polymerizations (Atom Transfer Radical Polymerization)," Macromolecules, 1998, 31, 4710-4717.	
		MATYJASZEWSKI, Controlled Radical Polymerization, American Chemical Society Division of Polymer Chemistry, 1998, ACS Symposium Series, Ch. 1, pp. 2-30. Vol. 685.	
		MCCARTHY et al., Grafting Chromatographic Stationary Phase Substrates by Atom Transfer Radical Polymertzation, in Controlled Radical Polymertzation: From Synthesis to Materials, American Chemical Society Division of Polymer Chemistry, 2005, Chapter 18, pp. 252-268, Vol. 944.	
		MITANI, et al., J. Am Chem. Soc. 105, 6719 (1983).	
		NAGASHIMA, J. Org. Chem. 57, 1682 (1992).	<b> </b>
		NAGASHIMA, J. Org. Chem. 58, 464 (1993).	
		NISHIKAWA et al., Evidence for Living Radical Polymerization of Methyl Methacrylate with Ruthenium Complex: Effects of Protic and Radical Compounds and Reinitiation from the Recovered Polymers, Macromolecules, 1997, pp. 2244-2245, Vol. 30(8).  ODELL, et al., Macromolecules, 1995, 28, 8435.	
		ODIAN, Principles of Polymerization, Third Edition, John Wiley & Sons, p. 205-233 (1991).	
		OROCHOV et al., Redox-Transfer, Part VI, Determination of Hammet's P-Constant for the Oxidation of Cuprous Chloride by Aromatic Sulphonyl Chlorides, Journal of the Chemical Society (6), (1969), pp. 255-259.	

	(b), (1909), pp. 255-259.		
Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*Applicant is unique citation designation number (policiona). \*Applicant is unique citation designation number (policional). \*Applicant is unique citation designation number (policional).

Applicant a unique Caisant unsegnation insure (potodia). "Applicant is to paloe a check mark here if English language Translation is attached. This understood information is required by 37 CFR 1.9. The information is required by 37 CFR 1.9. The information is required by 37 CFR 1.9. The control of the information is required by 37 CFR 1.9. The control of the information is required by 37 CFR 1.9. The control of the information is required by 37 CFR 1.9. The control of the information is required by 37 CFR 1.9. The control of the information is required by 37 CFR 1.9. The value of the information of the information

PTO/SB/08b (07-09) Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591.426 Filing Date INFORMATION DISCLOSURE 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) **Examiner Name** M. Bernshteyn Sheet Attorney Docket Number 050096PCTUS

		NON PATENT LITERATURE DOCUMENTS	
Examiner Cite Initials* No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		OROCHOV, et al., J. Chem. Soc., Perkin II, 1000 (1973).	
		ORR, Thermochemical Aspects of Butadiene-Styrene Copolymerization, 1960, pp. 74-82.	
		OTSU, et al., Chem. Express 5(10), 801 (1990).	
		OTSU, et al., New Initiator Systems for Radical Polymerization of Vinyl Monomers, Polymer Letters, 1967, pp. 697-701, Vol. 5.	
		OTSU, et al., Synthesis, Reactivity, and Role of -Vinylbenzyl N,N-Diethyldithiocarbamate as a Monomer-Iniferter in Radical Polymerization, Macromolecules, 1986, pp. 287-290, Vol. 19(2).	
		PAKUKA et al., Polymers, Particles, and Surfaces with Hairy Coatings: Synthesis, Structure, Dynamics, and Resulting Properties, in ACS Symposium Series, Advances in Controlledilving Radical Polymerizations, American Chemical Society Division of Polymer Chemistry, 2003, Chapter 26, pp. 366-382, Vol. 854.	
		Part 2, Controlled "Living" Emulsion Polymerization of Methyl Methacrylate by Atom Transfer Radical Polymerization, pp. 90-134., 1998	
		PATTEN et al., Atom Transfer Radical Polymerization and the Synthesis of Polymeric Materials, Advanced Materials, 1998, pp. 901-915, Vol. 10(12).	
		PATTEN et al., Polymers with very Low Polydispersities from Atom Transfer Radical Polymerization, 1996, Science, pp. 866-868, Vol. 272.	
		PCT International Search Report for International Application No. PCT/US05/07264 filed 12 June 2005, mailed 05 July 2005.	
		PERCEC et al., "Living" Radical Polymerization of Styrene Initiated by Arenesulfonyl Chlorides and Cu (bpy), Cl. Macromolecules, 1995, pp. 7970-7972, Vol. 28(23).	

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

\*EXAMINEX: nitral inference considerate, where or not cleaves an consumeror was interpreted. Industry of consumeror was interpreted. Industry of consumeror was interpreted and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This confection of information is required by 37 CFR 19. The information is required by 27 CFR 19. The information is required by 27 CFR 19. The information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The information is required by 19. The industry of the information is required by 19. The industry of the information is required by 19. The information is required to 19. The information is require USPTO to process) an application. Confidentially is governed to any 50 U.S.C. 122 and 37 U.Y.1.1.4. Into contection is estimated to upon 4 must be completed, pollution from the blackport. Three will vary depending upon the individual case. Any comments on the amount of time you require to complete in formation from the Use 1970. Three will vary depending upon the individual case. Any comments on the amount of time you require to complete application from the Use 1970. Three will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burder, should be sent the first first individual comments. On the complete the complete specific time of the support of the complete specific time of the TO THIS ADDRESS. SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO Application Number 10/591,426 INFORMATION DISCLOSURE Filing Date 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) **Examiner Name** M. Bernshteyn Sheet 17 of Attorney Docket Number 050096PCTUS

	_	NON PATENT LITERATURE DOCUMENTS	_		
Examiner nitials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		PERCEC et al., Metal-Catalyzed "Living" Radical Polymerization of Styrene Initiated with Arenesulfonyl Chlorides. From Heterogeneous to Homogeneous Catalyses, Macromolecules, 1998, pp. 3655-3668, Vol. 29(10).			
		PERCEC et al., Self-Regulated Phase Transfer of Cu <sub>2</sub> O/bpy, Cu(0)/bpy, and Cu <sub>2</sub> O(Cu(0)/bpy Catalyzed "Living" Radical Polymerization Initiated with Sulfonyl Chlorides, Macromolecules, 1998, pp. 4053-4056, Vol. 31(12).			
		PINTAUER et al., Toward Structural and Mechanistic Understanding of Transition Metal-Catalyzed Atom Transfer Radical Processes, in ACS Symposium Series, Advances in Controlled/living Radical Polymerizations, American Chemical Society Division of Polymer Chemistry, 2003, Chapter 10, pp. 130-147, Vol. 854.			
		PUNNA et al., Click Chemistry in Polymer Synthesis, Polymer Preprints, 2004, pp. 778-779, Vol. 45(1).			
		PUTS, et al., Macromolecules, 1996, 29, 3323.			
		QIU et al., Cyclic Voltammetric Studies of Copper Complexes Catalyzing Atom Transfer Radical Polymerization, Macromolecular Chemistry and Physics, 2000, pp. 1625-1631, Vol. 201(14).			
		QUEFFELEC et al., Optimization of Atom Transfer Radical Polymerization Using Cu(i)/Tris(2- (dimethylamlno)ethyl)amine as a Catalyst, Macromolecules, 2000, pp. 8629-8639, Vol. 33.			
		QUIRK et al., Makromol. Chem., Macromol. Symp. 67, pp. 351-363 (1993), "Mechanistic Aspects of Group Transfer Polymerization".			
		RICHARD et al., Acrylate-Based Block Copolymers Prepared by Atom Transfer Radical Polymerization as Matrices for Drug Delivery Applications, in Controlled Radical Polymerization: From Synthesis to Materials, American Chemical Society Division of Polymer Chemistry, 2005, Chapter 17, pp. 234-251, Vol. 944.			
		S.A.F. BON et al., Controlled Radical Polymerization in Emulsion, Macromolecules, 1997, pp. 324- 326, Vol. 30(2).			
		SAMUNI et al., "On the cytotoxicity of vitamin C and metal ions," European Journal of Biochemistry, 1983, 137. 119-124.			
		SCHUBERT et al., Design of Effective Systems for Controlled Radical Polymerization of Styrene: Application of 4.4"—Dimethyl and 5,5"-Dimethyl 2,2"-Bipyridine Copper(ii) Complexes, Macromolecular Rapid Communication, 1999, pp. 351-355, Vol. 20.			

Examiner Signature /Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010	٦
--	--------------------	------------	---

\*EXAMINER: Initial if reference considered, whether or not classion is a conformance with MPEP 600. Draw line through citation if not in conformance and not considered. Cluduce copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). \*Applicant is to place a check mark here if English language Transation is attached. This confection of information is required by 37 CFR 1.9. If information is required by a Diplot which is to fig (and by yhe confection of information is required by 37 CFR 1.9. If information is required by the confection of information is required by a CFR 1.9. If information is required by the confection of information is required by a CFR 1.9. If it is information

collection of information is required by 37 CER 1.98. The information is required a clinical nor interest is engine the product of the USFTO by process an application. Confidentially is government by 35 USF 2.22 and 37 CFR 1.10 the left of the USFTO process an application. Confidentially is government by 35 USF 2.22 and 37 CFR 1.10 the left of the USFTO process and the US

Sheet 18

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

050096PCTUS

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591,426 Filing Date 06-13-2007 INFORMATION DISCLOSURE First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshteyn

Attorney Docket Number

of

	,	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the  No.¹ item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue  number(s), publisher, city and/or country where published.					
		SCHULZ & MILKOVICH, Relative Reactivities and Graft Distributions of Polystyrene Macromers in Vinyl Chloride Copolymerization, Polymer International, 1994, pp. 141-149, Great Britain.					
		SEIJAS, et al., Tetrahedron, 48(9), 1637 (1992).					
		SHEN, et al., Supported Atom Transfer Radical Polymerization of Methyl Methacrylate Mediated by CuBR-Tetraethyldiethylenetriamine Graffed onto Silica Gel - Journal of Polymer Science: Part A: Polymer Chemistry, vol. 39, 1051-1059 (2001), John Wiley & Sons, Inc.					
		STILLE et al., Synthesis and Copolymerization of Styryl-Substituted Tetrazoles. Thermal Cross- Linking of Copolymers Containing Dipolarophiles and the Tetrazoles as Nitrile Imine Dipole Precursors, Macromolecules, 1972, pp. 377-384, Vol. 5(4).					
		SUMERLIN et al., Cike Tunctionalization of Weil-Defined Copolymers Prepared by Atom Transfer Radical Polymerization, in Controlled Radical Polymerization: From Synthesis to Materials, American Chemical Society Division of Polymer Chemistry, 2005, Chapter 11, pp. 140-152, Vol. 944.					
		TAKEICHI et al., Preparation of Porous Carbon Films by the Pyrolysis of Poly(Urethane-imide) Films and Their Pore Characteristics, Carbon, 2001, pp. 257-255, Vol. 39(2).					
		TSAREVESKY et al., Factors Determining the Performance of Copper-Based Atom Transfer Radical Polymerization Catalysts and Criteria for Rational Catalysis Selection, in Controlled Radical Polymerization: From Synthesis to Materials, American Chemical Society Division of Polymer Chemistry, 2005, Chapter 5, pp. 55-70, Vol 94.					
		TSAREVSKY et al., Well-Defined (Co)polymers with 5-Vinytetrazole Units via Combination of Atom Transfer Radical (Co)polymerization of Acylonitrile and "Click Chemistry"-Type Postpolymerization Modification, Macromolecules, 2004, pp. 9308–9313, Vol. 37(25).					
		UDDING, et al., J. Org. Chem. 59, 1993 (1994).					
		VAN GAAL et al., "Trends in Redox Potentials of Transition Metal Complexes," Coord. Chem. Rev. 1982, 47, 41.					
		VEREGIN, et al., Macromolecules, 1996, 29, 2746.					
		VEREGIN, et al., Macromolecules, 1996, 29, 4161.					

Examiner Signature /Michael Bernshteyn/ (10/20/2010)	Date Considered	10/20/2010
--	--------------------	------------

\*EXAMINET: Initial if reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). \*Applicant is to place a check mark here if English language Transistion is attached. This confection of information is required by 37 CFR 1.9. \*The information is required by 1900 process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to lead by the USFT 10 process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to lead by the USFT 10 process an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to lead by the USFT 10 process and process an

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

TO THIS ADDRESS. SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0851-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT		quired to respond to a collection of information unless it contains a valid OMB control number  Complete if Known			
		Application Number	10/591,426		
		Filing Date	06-13-2007		
		First Named Inventor	K. Matyjaszewski		
		Art Unit	1796		
(use as many sheets as necessary)			ssary)	Examiner Name	M. Bernshteyn
Sheet	19	of	20	Attorney Docket Number	050096PCTUS

		NON PATENT LITERATURE DOCUMENTS					
Examiner C Initials* N		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, dity and/or country where published.					
		VICEK, "Ligand Based Redox Series," Coord. Chem. Rev. 1982, 43, 39.					
		VON WERNE, et al., Preparation of Structurally Well-Defined Polymer-Nanoparticle Hybrids with Controlled/living Radical Polymerizations - J. Am. Chem. Soc. 1999, 121, 7409-7410.					
		WANG et al., "Living"/Controlled Radical Polymerization, Transition-Metal-Catalyzed Atom Transfer Radical Polymerization in the Presence of a Conventional Radical Initiator, Macromolecules, 1995, pp. 7572-7573, Vol. 28.					
		WANG et al., Controlled/"Living" Radical Polymerization. Atom Transfer Radical Polymerization in the Presence of Transition-Metal Complexes, Journal of the American Chemical Society, 1995, pp 5614–5615, Vol 117(20).					
		WANG et al., Controlled/"Living" Radical Polymerization, Halogen Atom Transfer Radical Polymerization Promoted by a Cu(i)/Cu(II) Redox Process, Macromolecules, 1995, pp. 7901-7910, Vol. 28(23).					
		WANO et al., ESR Study and Radical Observation in Transition Metal-Mediated Polymerization: Unified View of Atom Transfer Radical Polymerization Mechanism, in ACS Symposium Series, Advances in Controlled/living Radical Polymerizations, American Chemical Society Division of Polymer Chemistry, 2003, Chapter 12, pp. 161-179, Vol. 854,					
		WANG, et al., Polym. Prep. (Am. Chem. Soc. Polym. Chem. Div.), 38(1), 465 (1995).					
		WAYLAND, et al., Am. Chem. Soc., 116, 7943 (1994).					
		WEBSTER, Living Polymerization Methods, Science, 1991, pp. 887-893, Vol. 25.					
		WEBSTER, Makromol. Chem., Macromol. Symp. 67, pp. 365-371 (1993), "Mechanism of GTP: Can all of the Available Data be Accommodated?"					
		WEI et al., Atom Transfer Radical Polymerization of Styrene in the Presence of Iron Complexes, Polymer Preprints, 1997, pp. 231, Vol. 38(2).					

Examiner Signature	/Michael Bernshteyn/ (10/20/2010)	Date	10/20/2010	
Signature		Considered	10/20/2010	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*Applicant's unique citation designation number (priorang). \*Applicant's unique citation designation number (priorang).

collection of intermation is required by 37 CFR 1.98. The information is expected of block interview is English statiguage randomization is additionable. USEPTO in processing an application. Confidentially is governed by 36 U.S. CZ 2.2 and 37 CFR 1.10 the efficient public which is in liquid by the USEPTO in processing an application. Confidentially is governed by 36 U.S. CZ 2.2 and 37 CFR 1.10 the efficient public which is in liquid processing an experience of the complete including gathering, preparing, and submitting the completed application form to the USEPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this business, noted to sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1459, Alexandria, VA. 2213-1450. DN NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEMDTO: Commissioner for Patents, P.O. Box 1459, Alexandria, VA. 2213-1450.

Examiner

Signature

PTO/SB/08b (07-09) Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are req red to respond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/591.426 INFORMATION DISCLOSURE Filing Date 06-13-2007 First Named Inventor STATEMENT BY APPLICANT K. Matyjaszewski Art Unit 1796 (use as many sheets as necessary) Examiner Name M. Bernshtevn Attorney Docket Number 050096PCTUS

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		WU et al., Efficiency and Fidelity in a Click-Chemistry Route to Triazole Dendrimers by the Copper(I)-Catalyzed Ligation of Azides and Alkynes, Angewandte Chemie, International Edition, 2004, pp. 3928-3932, Vol. 43(30).	
		XIA et al., Controlled/"Living" Radical Polymerization. Homogenous Reverse Atom Transfer Radical Polymerization Using AIBN as the Initiator, Macromolecules, 1997, pp. 7692-7696, Vol. 30.	
		United States Patent application 09/534,827 filed March 23, 2000, Attorney Docket No. 00093.	
		*	
			_

\*EXAMINET: Initial irreference considered, whether or not cliation is in conformance with MPEP 600. Draw line through cliation if not in conformance and not considered. Chuduce copy of this form with next communication to applicant.

'Applicant's unique cliation designation number (optional). 'Applicant is to place a check mark here it English language Translation is attached. This consideration is required by 37 CFR 18. If it is triomation is explicated by control or retain a benefit by the public which is to life and by the consideration of information is required by 37 CFR 18. If it is triomation is required by control or retain a benefit by the public which is not life and by the

/Michael Bernshtevn/ (10/20/2010)

collection of information is required by 37 CFR 188. The information is required to obtain or retain a benefit by the public which is to file (and by its USFTO to process) an application. Confidentially is governed by 38 U.S. C12 and 37 CFR 1.4. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USFTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his flow mandor suggestions for reducing this budges, should be sent to the CNef Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 2213-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2213-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2213-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2213-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2213-1450, DO NOT SEND FEES OR COMPLETED FORMS

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Date

Considered

10/20/2010